

# Laucks <sup>80</sup> years

## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

## Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown

LABORATORY NO. 12193

DATE: Sept. 27, 1988

PO# M7178

REPORT ON: LIQUID



### SAMPLE

IDENTIFICATION: Submitted 09/21/88 and identified as shown below:

Metro Waste Discharge ID# 9-21-3200-M7178

### TESTS PERFORMED AND RESULTS:

parts per billion (ug/L)

	<u>Sample</u>	<u>Method Blank</u>
Trichloroethylene	<10.*	<1.

### \*Comment

Sample was in a pint jar (not a VOA bottle) with approx. one-half inch of headspace.

The sample was very viscous and slightly colored. The sample was analyzed at a 1/1000 and a 1/10 dilution. An unsuccessful attempt was made to analyze the sample undiluted. The undiluted sample foamed in the purge vessel so the analysis was aborted.



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AKC-0015594

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Alaskan Copper Works

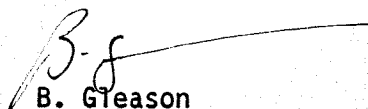
LABORATORY NO. 12193

### Key

< indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

  
B. Gleason

BG:emt



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AKC-0015595



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#### APPENDIX

#### Surrogate Recovery Quality Control Report

Attached are surrogate (chemically similar) compounds utilized in the analysis of organic compounds. The surrogates are added to every sample prior to extraction and analysis to monitor for matrix effects, purging efficiency, and sample processing errors. The control limits represent the 95% confidence interval established in our laboratory through repetitive analysis of these sample types.



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AKC-0015596

JOB No. 12193 DATE: 09/23/88

Sample No. B0923GVD.WA1 Matrix: Water Analysis: GC-HALL

Surrogate Compound	Percent Recovery	Comment	Control Limits
4-Bromofluorobenzene	78		76 - 121
Bromochloromethane	108		73 - 125

Sample No. 1@1/10 Matrix: Water Analysis: GC-HALL

Surrogate Compound	Percent Recovery	Comment	Control Limits
4-Bromofluorobenzene	80		76 - 121
Bromochloromethane	106		73 - 125

JOB No. 12193 DATE: 09/23/88

Sample No. B0923GVD.WA1 Matrix: Water Analysis: GC-PID

Surrogate Compound	Percent Recovery	Comment	Control Limits
4-Bromofluorobenzene	105		85 - 117

Sample No. 1@1/10 Matrix: Water Analysis: GC-PID

Surrogate Compound	Percent Recovery	Comment	Control Limits
4-Bromofluorobenzene	104		85 - 117